

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A compliant pin adapted to be pressed into a through-hole of a printed circuit board and have electrical contact with opposing surfaces of a side wall of the through-hole, said compliant pin comprising:

a portion insertable in the through-hole, said portion comprising spaced deflectable beam portions, each beam portion including an interface portion having a cylindrical outer surface, said outer surfaces of said interface portions being spaced apart a distance greater than the spacing of the opposing surfaces of the side wall, said outer surfaces of said interface portions engaging the side wall and said beam portions deflecting toward each other when said portion is inserted in the through-hole, said interface portions frictionally engaging the side wall and providing a retention force for retaining said portion in the through-hole;

said portion comprising an opening extending through said portion and defining inner surfaces of said beam portions, said inner surfaces consisting essentially of a plurality of blended cylindrical surfaces free from flat surfaces;

said interface portions each including a cylindrical inner surface comprising a portion of said inner surface of its respective beam portion, said inner surface and outer surface of each interface portion being convex and facing away

from each other and free from flat surfaces, said interface portions having a cross-sectional area that is greater than a cross-sectional area of a reminder of said beam portions.

2. (Original) The compliant pin recited in claim 1, wherein said frictional engagement provides a retention force of at least four pounds for retaining said portion in the through-hole, said portion having a thickness of no greater than 0.4 millimeters.

3. (Original) The compliant pin recited in claim 2, wherein the thickness of said portion is measured perpendicular to both a longitudinal axis of said portion and a lateral axis of said portion.

4. (Original) The compliant pin recited in claim 2, wherein said portion has a length of about 3.22 millimeters and a width of about 1.24 millimeters measured between said outer surfaces of said beam portions, the through-hole having a diameter of about 1.0 millimeter.

5. (Original) The compliant pin recited in claim 1, wherein said inner surfaces of said beam portions each include a central cylindrical surface, said central cylindrical surfaces being convex and presented facing each other, said central cylindrical surfaces defining a central portion of said opening.

Claims 6-8 (Canceled).

9. (Currently Amended) The compliant pin recited in claim 1, wherein said compliant pin has a longitudinal axis and a lateral axis extending perpendicular to the longitudinal axis, said cylindrical surfaces having axes that extend perpendicular to both the longitudinal axis and the lateral axis of said pin-~~contact~~.

10. (Original) The compliant pin recited in claim 1, further comprising a positioning portion comprising first and second leg portions positioned on laterally opposite sides of said portion, each of said legs having a surface for engaging a surface of the printed circuit board adjacent the through-hole and limiting insertion of said portion in the through-hole to help place said portion at a predetermined axial position in the through-hole.

Claims 11-22 (Canceled).

23. (Currently Amended) A compliant pin adapted to be pressed into a through-hole of a printed circuit board and have electrical contact with opposing surfaces of a side wall of the through-hole, said compliant pin comprising:

a portion insertable in the through-hole, said portion comprising spaced deflectable beam portions, each beam portion including an interface portion having a cylindrical outer surface, said outer surfaces of said interface portions

being spaced apart a distance greater than the spacing of the opposing surfaces of the side wall, said outer surfaces engaging the side wall and said beam portions deflecting toward each other when said portion is inserted in the through-hole, said interface portions frictionally engaging the side wall and providing a retention force for retaining said portion in the through-hole;

said portion comprising an opening extending through said portion and defining inner surfaces of said beam portions, said inner surfaces consisting essentially of a plurality of blended cylindrical surfaces free from flat surfaces;

said interface portions each including a cylindrical inner surface comprising a portion of said inner surface of its respective beam portion, said inner surface and outer surface of each interface portion being convex and facing away from each other and being free from flat surfaces, said interface portions having a cross-sectional area that is greater than a cross-sectional area of a remainder of said beam portions; and

wherein said compliant pin extends completely through said through hole.

24. (Previously Presented) The compliant pin recited in claim 23 wherein said compliant pin extends through said through hole until said opening of said portion projects below the bottom of said printed circuit board.

25. (Previously Presented) The compliant pin recited in claim 23 wherein said inner surfaces of said beam portions each include a central cylindrical surface, said central cylindrical surfaces being convex and presented facing each other, said central cylindrical surfaces defining a central portion of said opening.

26. (New) A compliant pin adapted to be pressed into a through-hole of a printed circuit board and have electrical contact with opposing surfaces of a side wall of the through-hole, said compliant pin comprising:

a portion insertable in the through-hole;

an opening extending through said portion, said opening defining a surface consisting essentially of a plurality of blended cylindrical surfaces free from flat surfaces; and

spaced deflectable beam portions at least partially defined by said opening, each beam portion comprising an interface portion with an outer surface that extends the length of said interface portion and an opposite inner surface that extends the length of said interface portion, said outer and inner surfaces of said interface portions each being cylindrical, free from flat surfaces and convex, said outer surfaces facing away from each other, said outer surface and said inner surface of each interface portion facing away from each other;

said outer surfaces being spaced apart a distance greater than the spacing of the opposing surfaces of the side

wall and engaging the side wall causing said beam portions to deflect toward each other when said portion is inserted in the through-hole, said outer surfaces frictionally engaging the side wall and providing a retention force for retaining said portion in the through-hole.